

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **02-040296**

(43)Date of publication of application : **09.02.1990**

(51)Int.Cl.

C02F 3/12

(21)Application number : **63-191696**

(71)Applicant : **NIPPON SHARYO SEIZO
KAISHA LTD**

(22)Date of filing : **30.07.1988**

(72)Inventor : **WAKAZONO KOSHI
KAWASE NOBUYUKI**

(54) APPARATUS AND METHOD FOR TREATING WASTE WATER

(57)Abstract:

PURPOSE: To efficiently treat both high concn. waste water and low concn. waste water by installing an aeration vessel in front of a batch type activated sludge treatment vessel, treating the high concn. waste water with activated sludge by a batch system after treatment with sludge in the aeration vessel and directly treating the low concn. waste water with activated sludge by a batch system.

CONSTITUTION: An aeration vessel 3 is installed in front of a batch type activated sludge treatment vessel 2. Waste water having high BOD and COD is introduced into the vessel 3 from a raw water pit 4 through a pipe 6 and a valve 7, mixed with air by means of a gas-liq. mixer 8 and treated with activated sludge. After the sludge is settled, the aerated water is introduced into the vessel 2 by a pump 12 and treated by a limited aeration method. Since the waste water is introduced into the vessel 2 after the BOD and COD are somewhat reduced, treating ability exceeding that of the vessel 2 is not required and efficiency is increased. Waste water having low BOD and COD is directly introduced into the vessel 2 through a pipe 20 and the load of the vessel 3 is reduced.